Vaibhav Chawla

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EXPERIENCE

Research Intern, IoT-Lab, BITS Pilani *Apr 2022 - Present*
- Worked on "Dynamic Contract Design for Federated Learning in Smart Healthcare Applications"

Full Stack Developer, Webknot Technologies Pvt. Ltd., Bengaluru *Feb 2022 - Mar 2022*
- Worked in the backend team on an application which streamlines the process of availing government services
- Learned and applied NodeJS, TypeORM and MySQL for backend development

Android App Developer, Cogent Web Services, Noida *Oct 2020 - Dec 2020*
- Conceptualized and built four linked apps for user, vendor, delivery worker, and admin, ensuring efficient operations of a multi-vendor e-commerce platform
- Learned and applied services including Firebase and Android Development

PROJECTS

Iryo - Women Health-Tech Platform
- Connects doctors, chemists, and female patients for in-app appointments and video conference consultations
- Features include functionality for tracking the menstrual cycle, orders for free sanitary napkins, and detecting skin related problems
- Uses Android Studio (Java) and TensorFlow Lite

SecureCloud - Securing cloud transactions using blockchain
- SecureCloud resists DoS attacks in cloud computing. The client-side interacts with an Ethereum smart contract which stores all the cloud transactions, such that no user gains access of more than predefined number of services maliciously
- Uses Web3, Solidity, ReactJS, and NodeJS

DigiMate - Platform for creating a better working world
- Conceptualized on Human Digital Twin, DigiMate provides a customized solution to all the problems faced by an employee at work and further helps in the all-round development of the employee
- Features include suggesting nutrition, workout schedules based on health data, future skills based on current skills and skills required for higher job roles
- Uses HTML, CSS, JS, Flask, Random Forest, Google APIs, COWIN APIs, and SQLite database

Smart Stone Paper Scissors - Making computer smarter in the classic game
- AI vs Human Stone Paper Scissor game
- Predicts users move based on parameters like the previous moves, current score, and overall results for the user and the computer
- Uses OpenCV, MediaPipe, and K-Nearest Neighbours

EDUCATION

Bachelor of Technology, Computer Science *Jul 2019 - Present*
Jaypee Institute of Information Technology, Sector-62, Noida GPA: 8.8

SKILLS

App Development: Android, Java, XML
Web Development: NodeJS, ExpressJS, ReactJS, Javascript, Flask
Computer Vision: Python, Jupyter Notebook, MediaPipe, Tensorflow, CNN
Database Management: SQL, SQLite, NoSQL
Data Structures and Algorithms: C/C++

STUDENT HUBS AND COMMUNITIES

- Google Developer Student Club JIIT - Technical Head
- Kaggle Days Meetups Delhi NCR - Volunteer
- Jaypee Debsoc - Member

ACHIEVEMENTS

- Awarded Certificate of Merit for the project Vajra, aimed towards tracing actual IP details behind VPN/Proxy, at Manthan Hackathon 2021 organized by AICTE, BPR&D for presenting the best project in Cybersecurity theme
- Awarded the first runners-up award, for the project DigiMate, at EY GDS Hackpions 3.0, organized by EY Global Delivery Services
- Awarded the first prize for the project Iryo at Trinity Hackathon in Xenith 2021 organized by IEEE JIIT
- Secured College Rank 1 in 300+ and National Rank 583 in 26,000+ participants at CodeKaze 2022 organized by Coding Ninjas